

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	273	((DELLA-LIBERA near2 GIOVANNI) (GAJJALA near2 VIJAY) (JANCZUK near2 TOMASZ) (LAMBERT near2 JOHN)).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/28 16:14
L2	2	((DELLA-LIBERA near2 GIOVANNI) (GAJJALA near2 VIJAY) (JANCZUK near2 TOMASZ) (LAMBERT near2 JOHN)).in. and (XPath).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/28 16:14
L3	9	((DELLA-LIBERA near2 GIOVANNI) (GAJJALA near2 VIJAY) (JANCZUK near2 TOMASZ) (LAMBERT near2 JOHN)).in. and (SOAP).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/28 16:15
L4	101	microsoft.as. and (SOAP).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/28 16:15
L5	68	microsoft.as. and (XPath).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/28 16:15
L6	1	microsoft.as. and (XPath).clm. and (security).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/28 16:15
L7	15	microsoft.as. and (SOAP).clm. and (security).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/28 16:15

## EAST Search History

S1	186	713/154.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 13:21
S2	427	713/167.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 13:23
S3	359	726/13.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 13:24
S4	947	S1 S2 S3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 13:24
S5	16	S4 and (SOAP)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 13:25
S6	16	S4 and (SOAP or ("Simple object access protocol"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/28 16:12
S7	0	S4 and (encrypt\$4 with (message42)) near10 (pattern profile\$2 filter\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 13:29

## EAST Search History

S8	0	(encrypt\$4 with (message42)) near10 (pattern profile\$2 filter\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 13:29
S9	9	S4 and (encrypt\$4 with (message\$2)) near10 (pattern profile\$2 filter\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 13:34
S10	285	(encrypt\$4 with (message\$2)) near10 (pattern profile\$2 filter\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 13:34
S11	59	(encrypt\$4 with (message\$2)) near10 (pattern profile\$2 filter\$3) and (xml soap)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 13:37
S12	305	726/21.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 13:37
S13	691	726/1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 13:37
S14	1877	S4 S12 S13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 13:37

## EAST Search History

S15	4	S14 and (pattern\$2 profil\$2) with (polic\$3) near2 (apply\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 13:39
S16	64	S14 and (soap)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 13:44
S17	7	S14 and (encrypt\$4 decrypt\$4) and (security adj policy) same (pattern\$2 protocol\$3) same (XML SOAP HTML)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 13:51
S18	528	(encrypt\$4 hash mac) with (message file packet) with (pattern\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 13:52
S19	0	(encrypt\$4 hash mac) with (message file packet) with (pattern\$2) and (apply\$2 with (securty adj (polic\$3 rule\$2)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 13:54
S20	0	(encrypt\$4 hash mac) with (message file packet) with (pattern\$2) and (appl\$3 with (securty adj (polic\$3 rule\$2)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 13:53
S21	0	(encrypt\$4 hash mac) with (message file packet) with (pattern\$2) and ((apply\$3 applie\$2) with (securty adj (polic\$3 rule\$2)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 13:53

## EAST Search History

S22	0	(encrypt\$4 hash mac) with (message file packet) and ((apply\$3 applie\$2) with (security adj (polic\$3 rule\$2)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 13:54
S23	0	((apply\$3 applie\$2) with (security adj (polic\$3 rule\$2)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 13:54
S24	7	(encrypt\$4 hash mac) with (message file packet) with (pattern\$2) same (security adj policy)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 14:27
S25	4314	(scope\$2 with profil\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 14:27
S26	954	(scope\$2 near3 profil\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 14:27
S27	2	(scope\$2 near3 profil\$3) same (encrypt\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 14:28
S28	42	(scope\$2 near3 profil\$3) and (encrypt\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 14:28

## EAST Search History

S29	1	(scope\$2 near3 profil\$3) same (SOAP XML HTML) and (encrypt\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 14:29
S30	6	(scope\$2 near3 profil\$3) same (SOAP XML HTML)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 14:35
S31	2	"6405212".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 14:35
S32	1595	707/9.ccls. and (scope\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 14:35
S33	701	(security adj policy\$2) same (encrypt\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 16:11
S34	196	(security adj policy\$2) same (encrypt\$5) and (scope\$3) and (profil\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 16:11
S35	126	(security adj policy\$2) same (encrypt\$5) and (scope\$3) and (profil\$3) and (SOAP HTML XML)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 16:11

## EAST Search History

S36	82	(security adj policy\$2) same (encrypt\$5) and (scope\$3) and (profil\$3) and (SOAP HTML XML) and (encrypt\$4) near3 (message\$2 packet\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 16:18
S37	146	(security adj policy\$2) same (encrypt\$5) and (SOAP HTML XML) and (encrypt\$4) near3 (message\$2 packet\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 16:18
S38	3	"7010681".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 16:18
S39	82	(security adj policy\$2) same (encrypt\$5) and (SOAP HTML XML) and (encrypt\$4) near3 (message\$2 packet\$2) and (SOAP)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/24 16:18
S40	45	abrishamkar.xa.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/26 13:04
S47	138	(mapping\$2) with (polic\$2) with (storage\$2 databas\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/28 13:32
S48	12	(mapping\$2) with (security adj (polic\$2)) with (storage\$2 databas\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/28 13:32

## EAST Search History

S49	7	(US-7024662-\$ or US-6405212-\$ or US-6931532-\$ or US-6807181-\$ or US-6915338-\$ or US-7010681-\$ or US-7062566-\$).did.	USPAT	OR	ON	2007/08/28 14:18
S50	2	S49 and soap	USPAT	OR	ON	2007/08/28 14:18
S51	2	S49 and soap	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/28 14:31
S52	81	SOAP with (document message) with parse	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/28 14:32
S53	4	SOAP with (document message) with parse same (security)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/28 14:32
S54	173	SOAP same (polic\$3) same (security)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/28 14:33
S55	160	SOAP same (polic\$3) same (security) and XML	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/28 14:33

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         ( policy<in>metadata )
- #3    ( ( xpath<in>metadata ) <and> ( policy<in>metadata ) )
- #4    ( ( xpath<in>metadata ) <and> ( policy<in>metadata ) )
- #5    ( ( xpath<in>metadata ) <and> ( policy<in>metadata ) )

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### 1 [Applications of formal methods: Verifying policy-based security for web services](#)



Karthikeyan Bhargavan, Cédric Fournet, Andrew D. Gordon

 October 2004 **Proceedings of the 11th ACM conference on Computer and communications security CCS '04**

Publisher: ACM Press

Full text available: pdf(269.16 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

WS-SecurityPolicy is a declarative configuration language for driving web services security mechanisms. We describe a formal semantics for WS-SecurityPolicy, and propose a more abstract link language for specifying the security goals of web services and their clients. Hence, we present the architecture and implementation of fully automatic tools that (1) compile policy files from link specifications, and (2) verify by invoking a theorem prover whether a set of policy files run by any number of ...

**Keywords:** XML security, pi calculus, web services

### 2 [Web services: An advisor for web services security policies](#)



Karthikeyan Bhargavan, Cédric Fournet, Andrew D. Gordon, Greg O'Shea

 November 2005 **Proceedings of the 2005 workshop on Secure web services SWS '05**

Publisher: ACM Press

Full text available: pdf(314.81 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We identify common security vulnerabilities found during security reviews of web services with policy-driven security. We describe the design of an advisor for web services security configurations, the first tool both to identify such vulnerabilities automatically and to offer remedial advice. We report on its implementation as a plugin for Microsoft Web Services Enhancers (WSE).

**Keywords:** WS-security, XML security, policy-driven security, web services


### 3 [Service security: A concrete solution for web services adaptability using policies and aspects](#)



Fabien Baligand, Valérie Monfort

 November 2004 **Proceedings of the 2nd international conference on Service oriented computing ICSOC '04**

**Publisher:** ACM Press

Full text available:  [pdf\(368.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Traditional middleware is usually developed on monolithic and non-evolving entities, resulting in a lack of flexibility and interoperability. Among current architectures, Service Oriented Architectures aim to easily develop more adaptable Information Systems. Most often, Web Service is the fitted technical solution which provides the required loose coupling to achieve such architectures. However there is still much to be done in order to obtain a genuinely flawless Web Service, and current ma ...

**Keywords:** adaptability, aspect oriented programming, reusability, service, service oriented architecture, web service

#### 4 Security architecture: Towards secure SOAP message exchange in a SOA



Mohammad Ashiqur Rahaman, Andreas Schaad, Maarten Rits

November 2006 **Proceedings of the 3rd ACM workshop on Secure web services SWS '06**

**Publisher:** ACM Press

Full text available:  [pdf\(375.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

SOAP message exchange is one of the core services required for system integration in Service Oriented Architecture (SOA) environments. One key concern in a SOA is thus to provide Message Level Security (as opposed to point to point security). We observe that systems are communicating with each other in a SOA over SOAP messages, often without adequate protection against XML rewriting attacks. We have already provided a solution to protect the integrity of SOAP messages in earlier work [1]. This so ...

**Keywords:** SOA, XML rewriting attack, SOAP account

#### 5 Defeasible security policy composition for web services



Adam J. Lee, Jodie P. Boyer, Lars E. Olson, Carl A. Gunter

November 2006 **Proceedings of the fourth ACM workshop on Formal methods in security FMSE '06**

**Publisher:** ACM Press

Full text available:  [pdf\(234.15 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The ability to automatically compose security policies created by multiple organizations is fundamental to the development of scalable security systems. The diversity of policies leads to conflicts and the need to resolve priorities between rules. In this paper we explore the concept of *defeasible policy composition*, wherein policies are represented in defeasible logic and composition is based on rules for non-monotonic inference. This enables policy writers to assert rules tentatively; w ...

**Keywords:** defeasible logic, security policy composition, web services

#### 6 Fine grained access control for SOAP E-services



Ernesto Damiani, Sabrina De Capitani di Vimercati, Stefano Paraboschi, Pierangela Samarati

April 2001 **Proceedings of the 10th international conference on World Wide Web WWW '01**

**Publisher:** ACM Press

Full text available:  [pdf\(258.34 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** SOAP, XML, access control, certificates, roles

7 Web services: Web services enterprise security architecture: a case study



Carlos Gutiérrez, Eduardo Fernández-Medina, Mario Piattini

November 2005 **Proceedings of the 2005 workshop on Secure web services SWS '05**

**Publisher:** ACM Press

Full text available: [pdf\(341.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Web Services (WS hereafter) Security is a crucial aspect for technologies based on this paradigm to be completely adopted by the industry. As a consequence, a lot of initiatives of initiatives have arisen during the last years setting as their main purpose the standardization of the security factors related to this paradigm. In fact, over the past years, the most important consortiums of Internet Internet, like IETF, W3C or OASIS, are producing a huge number of WS-based security standards. Desp ...

**Keywords:** security, software architecture, software development process, web services

8 Web services: XML signature elent wrapping attacks and countermeasures



Michael McIntosh, Paula Austel

November 2005 **Proceedings of the 2005 workshop on Secure web services SWS '05**

**Publisher:** ACM Press

Full text available: [pdf\(74.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citing terms](#), [index terms](#)

Naive use of XML Signature may result in signed documents raining vulnerable to undetected modification by an adversary. In the typical usage of XML Signature to protect SOAP messages, an adversary may be capable of modifying valid messages in order to gain unauthorized access to protected resources. This paper describes the general vulnerability and several related exploits, and proposes appropriate countermeasures. While the attacks described herein may se obvious to security experts once they ...

**Keywords:** XML signature, attack, countermeasure, security policy, vulnerability, web services security

9 Service oriented architectures: approaches, technologies and research issues

Mike P. Papazoglou, Willem-Jan Heuvel

July 2007 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 16 Issue 3

**Publisher:** Springer-Verlag New York, Inc.









Additional Information: [full citation](#), [abstract](#), [index terms](#)

Service-oriented architectures (SOA) is an emerging approach that addresses the requirements of loosely coupled, standards-based, and protocol- independent distributed computing. Typically business operations running in an SOA comprise a number of invocations of these different components, often in an event-driven or asynchronous fashion that reflects the underlying business process needs. To build an SOA a highly distributable communications and integration backbone is required. This functio ...

**Keywords:** Application and service integration, Asynchronous and event-driven processing, Enterprise bus, Service oriented architecture, Web services

10 Service-oriented device communications using the *devices profile for web services*

François Jammes, Antoine Mensch, Harm Smit

-  November 2005 **Proceedings of the 3rd international workshop on Middleware for pervasive and ad-hoc computing MPAC '05**  
**Publisher:** ACM Press  
Full text available:  [pdf\(479.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
- This paper outlines the benefits of adopting service-oriented architectures at the level of communications between resource-constrained embedded devices. It focuses on the usage of the *Devices Profile for Web Services* as the underpinning of such architectures for "smart" devices and discusses an early implementation thereof. It further illustrates how "dumb" or "legacy" devices can be integrated using a gatewaying approach.
- Keywords:** communication infrastructure, device networking, service-oriented architecture, web service
- 11 Session 4: Web service applications: Towards securing XML Web services  Ernesto Damiani, Sabrina De Capitani di Vimercati, Pierangela Samarati  
November 2002 **Proceedings of the 2002 ACM workshop on XML security XMLSEC '02**  
**Publisher:** ACM Press  
Full text available:  [pdf\(198.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
- Security is currently one of the main concerns about XML Web services. Several initiatives are currently ongoing aimed at achieving a standardized way for supporting integrity, confidentiality, and access control for XML Web services. This paper looks into these approaches and gives some hints for future research.
- Keywords:** SOAP, Web services, access control
- 12 Specifying conflict of interest assertions in WS-policy with Chinese wall security policy  Patrick C. K. Hung, Guang-Sha Qiu  
March 2003 **ACM SIGecom Exchanges**, Volume 4 Issue 1  
**Publisher:** ACM Press  
Full text available:  [pdf\(270.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
- A Web service is defined as an autonomous unit of application logic that provides either some business functionality or information to other applications through an Internet connection. Web services are based on a set of XML standards such as Simple Object Access Protocol (SOAP), Universal Description, Discovery and Integration (UDDI) and Web Services Description Language (WSDL). The benefits of adopting Web services over traditional business-to-business applications include faster time to produ ...
- Keywords:** Chinese wall security policy, WS-policy, WS-policy attachment, conflict of interest, delegation, matchmaking, security assertion, security policy, service locators
- 13 X-GTRBAC: an XML-based policy specification framework and architecture for enterprise-wide access control  Rafae Bhatti, Arif Ghafoor, Elisa Bertino, James B. D. Joshi  
May 2005 **ACM Transactions on Information and System Security (TISSEC)**, Volume 8 Issue 2  
**Publisher:** ACM Press  
Full text available:  [pdf\(1.60 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Modern day enterprises exhibit a growing trend toward adoption of enterprise computing services for efficient resource utilization, scalability, and flexibility. These environments are characterized by heterogeneous, distributed computing systems exchanging enormous volumes of time-critical data with varying levels of access control in a dynamic business environment. The enterprises are thus faced with significant challenges as they endeavor to achieve their primary goals, and simultaneously ens ...

**Keywords:** XML, role-based access control, secure enterprises

#### 14 An Access Control Model for Web Services in Business Process

Peng Liu, Zhong Chen

September 2004 **Proceedings of the 2004 IEEE/WIC/ACM International Conference on Web Intelligence WI '04**

**Publisher:** IEEE Computer Society

Full text available:  [pdf\(139.60 KB\)](#)



[Publisher Site](#)

Additional Information: [full citation](#), [abstract](#)

Business process describes a set of services that span enterprise boundaries and are provided by enterprises that see each other as partners. Web services is widely accepted and adopted to construct business process. Web services are built in exposed environment and open to security threats. When a web service contained in a business process is authorized to illegal users, it will cause economic loss of the service provider. Although there exist some standards for security of Web services and ac ...

#### 15 Session 2: secure Web services: Validating a Web service security abstraction by typing



Andrew D. Gordon, Riccardo Pucella

November 2002 **Proceedings of the 2002 ACM workshop on XML security XMLSEC '02**

**Publisher:** ACM Press

Full text available:  [pdf\(210.31 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

An XML web service is, to a first approximation, an RPC service in which requests and responses are encoded in XML as SOAP envelopes, and transported over HTTP. We consider the problem of authenticating requests and responses at the SOAP-level, rather than relying on transport-level security. We propose a security abstraction, inspired by earlier work on secure RPC, in which the methods exported by a web service are annotated with one of three security levels: none, authenticated, or both authen ...

**Keywords:** Web services, authentication, remote procedure call, type systems


#### 16 Correctness & security: Access control enforcement for conversation-based web services



Massimo Mecella, Mourad Ouzzani, Federica Paci, Elisa Bertino

May 2006 **Proceedings of the 15th international conference on World Wide Web WWW '06**

**Publisher:** ACM Press

Full text available:  [pdf\(357.06 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Service Oriented Computing is emerging as the main approach to build distributed enterprise applications on the Web. The widespread use of Web services is hindered by the lack of adequate security and privacy support. In this paper, we present a novel framework for enforcing access control in conversation-based Web services. Our approach takes into account the conversational nature of Web services. This is in contrast with

existing approaches to access control enforcement that assume a Web servi ...

**Keywords:** access control, conversations, transition systems, web services

# 17 The semantic e-business vision: Secure knowledge management and the semantic web



JinKyu Lee, Shambhu J. Upadhyaya, H. Raghav Rao, Raj Sharman  
December 2005 **Communications of the ACM**, Volume 48 Issue 12

**Publisher:** ACM Press

Full text available: pdf(131.91 KB)  
 html(27.79 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Strengthening security within the domain of shared knowledge is a critical issue, and great challenge, to businesses today. A number of different protocols currently available offer an array of benefits and limitations.

# 18 Trust management: Automatic web services composition in trustaware communities



Fahima Cheikh, Giuseppe De Giacomo, Massimo Mecella

November 2006 **Proceedings of the 3rd ACM workshop on Secure web services SWS '06**

**Publisher:** ACM Press

Full text available: pdf(244.63 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The promise of Web Service Computing is to utilize Web services as fundamental elements for realizing distributed applications/solutions. In particular, when no available service can satisfy client request, (parts of) available services can be composed and orchestrated in order to satisfy such a request. In this paper, we address the automatic composition when component services have access control & authorization constraints, and impose further reputation constraints on other component services. ...

**Keywords:** access control, composition, trust, web services

# 19 Access control model: An extended RBAC profile of XACML



Diala Abi Haidar, Nora Cuppens-Boulahia, Frederic Cuppens, Herve Debar

November 2006 **Proceedings of the 3rd ACM workshop on Secure web services SWS '06**

**Publisher:** ACM Press

Full text available: pdf(493.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Nowadays many organizations use security policies to control access to sensitive resources. Moreover, exchanging or sharing services and resources is essential for these organizations to achieve their business objectives. Since the eXtensible Access Control Markup Language (XACML) was standardized by the OASIS community, it has been widely deployed, making it easier to interoperate with other applications using the same standard language. The OASIS has defined an RBAC profile of XACML that illus ...

**Keywords:** OrBAC, RBAC, XACML, access control


# 20 Software design, languages and systems: Token-based dynamic trust establishment for web services



Zhengping Wu, Alfred C. Weaver

March 2005 **Proceedings of the 43rd annual Southeast regional conference - Volume 2 ACM-SE 43**

**Publisher:** ACM Press

Full text available:  pdf(333.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Despite recent advances in trust relationship control mechanisms, issues remain that impede the development of effective trust models. One of these is the lack of dynamic mechanisms that can simultaneously achieve both privacy and efficiency when establishing a new trust relationship. Current techniques encourage the client to reveal more attributes than may be required by the web service (resulting in a lack of privacy) or else engage in negotiation with the web service to discover and then ser ...

**Keywords:** dynamic trust establishment, privacy, security token, web service

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### 1 [On specifying security policies for web documents with an XML-based language](#)



Elisa Bertino, Silvana Castano, Elena Ferrari

 May 2001 **Proceedings of the sixth ACM symposium on Access control models and technologies SACMAT '01**

Publisher: ACM Press

 Full text available: [pdf\(290.20 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The rapid growth of the Web and the ease with which data can be accessed facilitate the distribution and sharing of information. Information dissemination often takes the form of documents that are made available at Web servers, or that are actively broadcasted by Web servers to interested clients. In this paper, we present an XML-compliant formalism for specifying security-related information for Web document protection. In particular, we introduce X-Sec, an XML-based lang ...

**Keywords:** XML, access control, security policies, subject credentials

### 2 [Managing security policies in a distributed environment using eXtensible markup language \(XML\)](#)



Nathan N. Vuong, Geoffrey S. Smith, Yi Deng

 March 2001 **Proceedings of the 2001 ACM symposium on Applied computing SAC '01**

Publisher: ACM Press

 Full text available: [pdf\(206.91 KB\)](#)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** Java, RBAC, XML, distributed authorization, managing security policies, meta-language

### 3 [Web services: An advisor for web services security policies](#)



Karthikeyan Bhargavan, Cédric Fournet, Andrew D. Gordon, Greg O'Shea

 November 2005 **Proceedings of the 2005 workshop on Secure web services SWS '05**

Publisher: ACM Press

 Full text available: [pdf\(314.81 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We identify common security vulnerabilities found during security reviews of web services

with policy-driven security. We describe the design of an advisor for web services security configurations, the first tool both to identify such vulnerabilities automatically and to offer remedial advice. We report on its implementation as a plugin for Microsoft Web Services Enhancements (WSE).

**Keywords:** WS-security, XML security, policy-driven security, web services

4 Research sessions: security and privacy: Secure XML querying with security views



Wenfei Fan, Chee-Yong Chan, Minos Garofalakis

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data SIGMOD '04**

**Publisher:** ACM Press

Full text available: [pdf\(229.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The prevalent use of XML highlights the need for a generic, flexible access-control mechanism for XML documents that supports efficient and secure query access, without revealing sensitive information unauthorized users. This paper introduces a novel paradigm for specifying XML security constraints and investigates the enforcement of such constraints during XML query evaluation. Our approach is based on the novel concept of *security views*, which provide for each user group (a) an XML view ...

5 X-GTRBAC: an XML-based policy specification framework and architecture for enterprise-wide access control



Rafae Bhatti, Arif Ghafoor, Elisa Bertino, James B. D. Joshi

May 2005 **ACM Transactions on Information and System Security (TISSEC)**, Volume 8 Issue 2

**Publisher:** ACM Press

Full text available: [pdf\(1.60 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Modern day enterprises exhibit a growing trend toward adoption of enterprise computing services for efficient resource utilization, scalability, and flexibility. These environments are characterized by heterogeneous, distributed computing systems exchanging enormous volumes of time-critical data with varying levels of access control in a dynamic business environment. The enterprises are thus faced with significant challenges as they endeavor to achieve their primary goals, and simultaneously ens ...

**Keywords:** XML, role-based access control, secure enterprises

6 XML document security based on provisional authorization



Michiharu Kudo, Satoshi Hada

November 2000 **Proceedings of the 7th ACM conference on Computer and communications security CCS '00**

**Publisher:** ACM Press

Full text available: [pdf\(456.68 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** XML, access control, provisional authorization, security transcoding


7 Applications of formal methods: Verifying policy-based security for web services



Karthikeyan Bhargavan, Cédric Fournet, Andrew D. Gordon

October 2004 **Proceedings of the 11th ACM conference on Computer and communications security CCS '04**

**Publisher:** ACM Press

Full text available:  [pdf\(269.16 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

WS-SecurityPolicy is a declarative configuration language for driving web services security mechanisms. We describe a formal semantics for WS-SecurityPolicy, and propose a more abstract link language for specifying the security goals of web services and their clients. Hence, we present the architecture and implementation of fully automatic tools that (1) compile policy files from link specifications, and (2) verify by invoking a theorem prover whether a set of policy files run by any number of ...

**Keywords:** XML security, pi calculus, web services


## 8 XML security: Concept-level access control for the Semantic Web



Li Qin, Vijayalakshmi Atluri

October 2003 **Proceedings of the 2003 ACM workshop on XML security XMLSEC '03**

**Publisher:** ACM Press

Full text available:  [pdf\(320.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Recently, the notion of the Semantic Web has been introduced to define a machine-interpretable web targeted for automation, integration and reuse of data across different applications. Under the Semantic Web, web pages are annotated by concepts that are formally defined in ontologies along with the relationships among them. As information pertaining to different concepts has varying access control requirements, in this paper, we propose an access control model for the semantic web that is capable ...

**Keywords:** Semantic Web, access control, concept, ontology, propagation

## 9 XML security: Certificate validation service using XKMS for computational grid



Namje Park, Kiyoungh Moon, Sungwon Sohn

October 2003 **Proceedings of the 2003 ACM workshop on XML security XMLSEC '03**

**Publisher:** ACM Press

Full text available:  [pdf\(7.01 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A computational grid is a hardware and software infrastructure capable of providing dependable, consistent, pervasive, and inexpensive access to high-end computational resource. There are many ways to access the resources of a computational grid, each with unique security requirements and implications for both the resource user and the resource provider. Current Grid security Infrastructure using PKI based on SSO. But open grid service Security Infrastructure in Global Grid Forum(GGF) will extend ...

**Keywords:** GSI, XKMS, XML, XML security, certificate validation, grid, key management, security

## 10 Access control for XML document: Generalized XML security views



Gabriel Kuper, Fabio Massacci, Nataliya Rassadko

June 2005 **Proceedings of the tenth ACM symposium on Access control models and technologies SACMAT '05**

**Publisher:** ACM Press

Full text available:  [pdf\(168.30 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We investigate a generalization of the notion of XML security view introduced by Stoica and Farkas [17] and later refined by Fan et al. [8]. The model consists of access control

policies specified over DTDs with XPath expression for data-dependent access control policies. We provide the notion of *security views* for characterizing information accessible to authorized users. This is a transformed (sanitized) DTD schema that can be used by users for query formulation and optimization. Then w ...

**Keywords:** XML access control, XML views, XPath

11 Research session 3: security and privacy: Security analysis of cryptographically controlled access to XML documents



Martín Abadi, Bogdan Warinschi

June 2005 **Proceedings of the twenty-fourth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '05**

**Publisher:** ACM Press

Full text available: pdf(180.71 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Some promising recent schemes for XML access control employ encryption for implementing security policies on published data, avoiding data duplication. In this paper we study one such scheme, due to Miklau and Suciu. That scheme was introduced with some intuitive explanations and goals, but without precise definitions and guarantees for the use of cryptography (specifically, symmetric encryption and secret sharing). We bridge this gap in the present work. We analyze the scheme in the context of ...

12 Secure and selective dissemination of XML documents



Elisa Bertino, Elena Ferrari

August 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 3

**Publisher:** ACM Press

Full text available: pdf(678.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

XML (*eXtensible Markup Language*) has emerged as a prevalent standard for document representation and exchange on the Web. It is often the case that XML documents contain information of different sensitivity degrees that must be selectively shared by (possibly large) user communities. There is thus the need for models and mechanisms enabling the specification and enforcement of access control policies for XML documents. Mechanisms are also required enabling a secure and selective dissemination ...

**Keywords:** Access control, XML, secure distribution

13 Session 4: Web service applications: Towards securing XML Web services



Ernesto Damiani, Sabrina De Capitani di Vimercati, Pierangela Samarati

November 2002 **Proceedings of the 2002 ACM workshop on XML security XMLSEC '02**

**Publisher:** ACM Press

Full text available: pdf(198.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Security is currently one of the main concerns about XML Web services. Several initiatives are currently ongoing aimed at achieving a standardized way for supporting integrity, confidentiality, and access control for XML Web services. This paper looks into these approaches and gives some hints for future research.

**Keywords:** SOAP, Web services, access control

14 Healthcare data integration and exchange: Policy-based security management for

 federated healthcare databases (or RHIOs)

Rafae Bhatti, Khalid Moidu, Arif Ghafoor

November 2006 **Proceedings of the international workshop on Healthcare information and knowledge management HIKM '06****Publisher:** ACM PressFull text available:  [pdf\(329.06 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The role of security management in the RHIOs has recently gained increasing attention due to strict privacy and disclosure rules, and federal regulations such as HIPAA. The envisioned use of electronic health care records in such systems involves pervasive and ubiquitous access to healthcare information from anywhere outside of traditional hospital boundaries which puts increasing demands on the underlying security mechanisms. In this paper, we have designed a context-aware policy-based system t ...

**Keywords:** federated healthcare architecture, privacy and disclosure policy, role based access control

15 Specifying conflict of interest assertions in WS-policy with Chinese wall security policy 

Patrick C. K. Hung, Guang-Sha Qiu

March 2003 **ACM SIGecom Exchanges**, Volume 4 Issue 1**Publisher:** ACM PressFull text available:  [pdf\(270.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A Web service is defined as an autonomous unit of application logic that provides either some business functionality or information to other applications through an Internet connection. Web services are based on a set of XML standards such as Simple Object Access Protocol (SOAP), Universal Description, Discovery and Integration (UDDI) and Web Services Description Language (WSDL). The benefits of adopting Web services over traditional business-to-business applications include faster time to produ ...

**Keywords:** Chinese wall security policy, WS-policy, WS-policy attachment, conflict of interest, delegation, matchmaking, security assertion, security policy, service locators

16 Controlled and cooperative updates of XML documents in byzantine and failure-prone distributed systems 

Giovanni Mella, Elena Ferrari, Elisa Bertino, Yunhua Koglin

November 2006 **ACM Transactions on Information and System Security (TISSEC)**, Volume 9 Issue 4**Publisher:** ACM PressFull text available:  [pdf\(1.32 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper proposes an infrastructure and related algorithms for the controlled and cooperative updates of XML documents. Key components of the proposed system are a set of XML-based languages for specifying access-control policies and the path that the document must follow during its update. Such path can be fully specified before the update process begins or can be *dynamically* modified by properly authorized subjects while being transmitted. Our approach is fully distributed in that eac ...

**Keywords:** Byzantine and distributed systems, XML documents, policy languages, updates

17 Technical poster session 3: multimedia tools, end-systems, and applications: SMARXO: towards secured multimedia applications by adopting RBAC, XML and 


 object-relational database

Shu-Ching Chen, Mei-Ling Shyu, Na Zhao

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia MULTIMEDIA '04****Publisher:** ACM PressFull text available:  [pdf\(338.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


In this paper, a framework named SMARXO is proposed to address the security issues in multimedia applications by adopting RBAC (Role-Based Access Control), XML, and Object-Relational Databases. Compared with the other existing security models or projects, SMARXO can deal with more intricate situations. First, the image object-level security and video scene/shot-level security can be easily achieved. Second, the temporal constraints and IP address restrictions are modeled for the access control ...

**Keywords:** XML, multimedia security, object-relational databases, role-based access control (RBAC)

18 XML access control using static analysis Makoto Murata, Akihiko Tozawa, Michiharu Kudo, Satoshi HadaAugust 2006 **ACM Transactions on Information and System Security (TISSEC)**, Volume 9 Issue 3**Publisher:** ACM PressFull text available:  [pdf\(495.08 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Access control policies for XML typically use regular path expressions such as XPath for specifying the objects for access-control policies. However such access-control policies are burdens to the query engines for XML documents. To relieve this burden, we introduce static analysis for XML access-control. Given an access-control policy, query expression, and an optional schema, static analysis determines if this query expression is guaranteed not to access elements or attributes that are hidden ...

**Keywords:** Access control, XML, XPath, XQuery, automaton, query optimization, schema, static analysis, value-based access control, view schema

19 Web services: XML signature element wrapping attacks and countermeasures Michael McIntosh, Paula AustelNovember 2005 **Proceedings of the 2005 workshop on Secure web services SWS '05****Publisher:** ACM PressFull text available:  [pdf\(74.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Naive use of XML Signature may result in signed documents being vulnerable to undetected modification by an adversary. In the typical usage of XML Signature to protect SOAP messages, an adversary may be capable of modifying valid messages in order to gain unauthorized access to protected resources. This paper describes the general vulnerability and several related exploits, and proposes appropriate countermeasures. While the attacks described herein may seem obvious to security experts once they ...

**Keywords:** XML signature, attack, countermeasure, security policy, vulnerability, web services security

20 Research sessions: Research 4: Security & privacy: Efficient secure query evaluation over encrypted XML databases

Hui Wang, Laks V. S. Lakshmanan

September 2006 **Proceedings of the 32nd international conference on Very large data bases VLDB '06**

**Publisher:** VLDB Endowment

Full text available:  [pdf\(919.13 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Motivated by the "database-as-service" paradigm wherein data owned by a client is hosted on a third-party server, there is significant interest in secure query evaluation over encrypted databases. We consider this problem for XML databases. We consider an attack model where the attacker may possess exact knowledge about the domain values and their occurrence frequencies, and we wish to protect sensitive structural information as well as value associations. We capture such security requirements u ...

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